

FROM GREAT IDEAS TO REALITY



FYP SYMPOSIUM

FACULTY OF
COMPUTER SCIENCE & IT

15th - 17th JUNE 2015

8.30AM - 5.00PM

Opening Ceremony Officiated by:
YBhg Prof. Dr. Wan Hashim b. Wan Ibrahim,
Deputy Vice Chancellor (Academic & International)

DESIGNER:
HIRNAWATI MASLAN



FOREWORD

Dear students,

First of all, on behalf of the faculty, I would like to congratulate all students who are registered for Final Year Project (FYP), and have completed the report and the system/ project. Final Year Project is one of very important milestone and achievement for your study in FCSIT. In order to successfully complete the project, you need to be able to use and apply all the knowledge that you have acquired during your study. It is probably one of the most challenging (not to mention stressful, sleepless night, etc.) experience during your study here, but I can assure you that what you have learned, and experienced, will greatly benefits and prepare you when joining the "real world" in very near future. Your journey at FCSIT is coming to an end, it's like running a 100 metres race with a few steps to go, and the last few metres are the most challenging. Another aspect that I would like all of you to think about is the potential commercialization of your FYP project. Based on our experience, the quality of many FYP projects is good enough to be commercialized to the real world. Be creative, and be brave to commercialize your project. I wish all the best for your presentation, and we are very proud of your achievement.

I also would like to take this opportunity to thank the FYP Coordinator (Prof. Wang Yin Chai), all students (FYP Symposium Committee) and faculty staff who are involved in organizing the FYP Symposium, and last but not the least, to all supervisors for guiding and supervising the students throughout their FYP journey.

With best regards,

Dr. Johari Abdullah
Dean,
Faculty of Computer Science and Information Technology

AGENDA

STUDENT'S FYP PROJECT TITLE

1. AHMAD SAFRI BIN YUSOP
 - QR Code Exam Attendance Using Smart Phone
2. ANWARUDDIN BIN MOHAMAD NASSARUDIN
 - Kraftangan Pattern Simulator
3. ANYIE ANDREW NGAU
 - Student Mobility Monitoring Analysis Using Wi-Fi Technology
4. ANYSTA LIUN ANAK RENANG
 - Generating Multilingual Wordlist Based on Alignment Techniques
5. ASYRAF SYUKRI BIN ABDULLAH HALIM
 - Controlled LED (light- emitting-diode)System
6. ATIKAH SYAZWANI BINTI MOHD. AMIN
 - Sport Tournament Management System
7. FASIAH BINTI FAUZI
 - Inverted Indexing Approach For FCSIT Report Meeting
8. FIONA LAURA ANAK EDWIN DUAT
 - Analysis the Influence of Denial of Service (DoS) Attacks on Big Data at Wireless Environment
9. HARIS BIN HAMDAN
 - Mobile-Based Goods and Services Tax (GST) Product Status Checker Application using Barcode Scanning Technology on Android Platform
10. IRWIN SHARMA
 - Mobile-based Parking Payment and Monitoring System
11. IVANNA TINGANG
 - Designing Podcast Platform for Kelabit Community
12. JASON ANAK JOHN
 - An Automated Retractable Awning with Raining Sensor
13. JONG CHIT BOON
 - Business Model Canvas Tools
14. LEE WENG YEW
 - Student Attendance System using Wifi
15. LILYANA ANAK JELAI
 - Simulation of FO Tool
16. LO LEE CHING
 - FCSIT Student Online Advising Appointment System with Academic Staff's Availability Viewer
17. LYDIA CHRISTY ANAK MAMBAI
 - Basic Genetic Inheritance e-Learning
18. MATHILDA APRIANY ITUONG
 - Development of Mobile Application for Vocabulary Learning among Autistic Children
19. MCJONELL ANTHONY
 - Kuching Waterfront Tourism Spotter
20. NABIHA BINTI ABD. AZIZ
 - Interactive Smartphone Monitoring Application Of BMI, Cholestrol and Blood Preasure For Eldery Patience
21. NORAEIDAH BT GHAZALI
 - Management by Objectives (MBO) System
22. NUR AZIMA BINTI ALIBEDING
 - Development of Interactive Mobile Application for Dyscalculia Testing

23. NUR AZLYNNIEZA BINTI AHMAD AKMANNIZAM
 - Evaluating a New Malay Part of Speech (POS) Tagset
24. NURAINI BINTI MOHAMAD SALLEH
 - Sarawak General Hospital Staff Training System (SGH-STS)
25. NURFARAHAIN JAMEL
 - Analysis the Influence of Man in The Middle Attacks On Big Data at Wireless Environment
26. NURUL JANNAH BINTI BUANG
 - Web-Based System for Pendaftaran Kursus Luar Julat (e-KULAT)
27. PRESCILIA DELLA ANAK PETER
 - Android-Based UNIMAS Student Car Rental
28. ROMENA ANAK KEBI@KEBBIE
 - Mapping Parallel and Optional Activity to XML Representation
29. SITI ATHIRAH BINTI MOHAMMED NAWI
 - Textbook Recommendation System for FCSIT Students Based On Collaborative Filtering
30. SITI NUR AIN BINTI ZAMNI
 - Discovering Disaster Victims in Kuching using Mobile Ad Hoc Network
31. SYAIDATUL NURAZREN BINTI RAMLAN
 - Development of Interactive Mobile Application for Teaching Jawi Alphabets to Children.
32. Syamsul Adli Bin Zaharudin
 - Development of Smartphone Applications for Vegetarian Diet
33. Ting Jia Yee
 - Mathematics E-learning of Android Application for Autism Kids
34. UMIRA BINTI HASSAN
 - Mobile-Based Application for Reusable Items
35. ZURAINI BINTI CHE SOH
 - Visualization of Named Entity Relations in Sarawak Gazette
36. 'AISYAH BINTI MOHAMMAD
 - Mathematical Modeling of Leptospirosis Cases In Malaysia In Corporation with Weather Data
37. ABDUL HANAN BIN MOHD IBRAHIM
 - BM2BM2T: Bahasa Melayu to Bahasa Melanau Mobile Translator
38. ABRAHAM CHAN
 - Self-Taught C++ Computer Programming Tool
39. AHMAD FARIDUL AZMI BIN AHMAD HIDAYAT
 - Simulation of water in Open Channel
40. AHMAD MARWAN BIN AB. RAHMAN
 - Faculty Course Timetabling using Artificial Intelligence Algorithm
41. AHMAD ZAKWAN BIN AMRAN
 - Examination Authoring Support Tools
42. AINURUL SALASIAH BINTI ABDUL MAJID
 - Internship Planning System
43. AMALINA NAJWA BINTI AHMAD
 - Game Based Learning for Art throughout History for Mobile
44. AMIRAH SYAIRAH BINTI ABU MANSOR
 - FCSIT eAdvertisement
45. ANDREA ANAK RIWIK
 - Patient Monitoring System using Arduino and Cloud Computing
46. ARTHUR ALVIN AWAH
 - UNIMAS Sport Reservation and Information System
47. AUDREY ANAK JUNA
 - Preservation and Maintenance System for St. Thomas eMagazine

48. AZIZUL BIN MOHD. ALI
 - Health Monitoring Using Android via Wireless Network
49. AZIZUL LAU
 - Home Automation System with Arduino Wireless Sensor Network
50. CHAN YAT SENG
 - Transaction Record Management System
51. CHANG YEI LING
 - Android based Hand-Foot-Mouth Disease Monitoring
52. CHARLES GOH GEOK YEW
 - Sketch Based Inventory Kiosk System Using CBIR Approach
53. CHEE YEH YUN
 - Tour Operation System
54. CHIADIGHIKA OBI IKENNA RENE
 - Comparative Study Between Signature Based and Anomaly Based Network Intrusion Detection System
55. CHIN SYN TIEN
 - Android-based Multimedia Presentation Tool for the Illiterate and ICT Illiterate
56. CHING FONG MAY
 - WM Human Resources Management System
57. CHO HUI LING
 - Memory Game for Hearing Impaired Students
58. CHONG HUI HUI
 - Mathematics Game for Primary Student
59. CHONG PEI EE
 - An Alternative Social Chat
60. CHONG YEUN SOON
 - Home Surveillance System using Raspberry Pi
61. CHUAH CHIN YIN
 - Campus Announcement and Interactive System
62. CHYE KIM QUAN
 - FCSIT Grant Management System
63. DENNIS YONG CHUAN KUAN
 - RICAS (Rimba Ilmu Collaborative Annotation System)
64. DONNA CHRISTEN GEORGE
 - Data Dissemination using People Rank Algorithm in Opportunistic Network
65. EILEEN DURIE ACHIL
 - Android-Based Application for Teaching English to Primary School Kids: Using Voice Modulation to Engage the Students.
66. ERWINA BINTI ROHADI
 - "Dunia Haiwan" Android Mobile Application (Malay Version)
67. FAHMY AZFY BIN RICHARD RUDY
 - A Simulation of Data Forwarding Using Data Context Approach in Opportunistic Network
68. FAIZOL BIN MOHD. SURIA
 - Sport And Recreation Unit Facility Management System
69. FARIZ IZWAN BIN ISHAK
 - Mind Mapping Tool For Note Taking
70. FATIN FAYYADHAH BINTI ZABIDI
 - Needy Mobile Apps with crowd sourcing technique
71. FIONA ANAK KANDOU Fiona anak Kandou
 - Image Enhancement for Text Extraction on Mobile App

72. GOH KAI MING

- Agriculture Monitoring System using Machine-to-Machine (m2m) Communication

73. HAFIZAL SUKRAN BIN SULAIMAN

- Wireless Sensor Network for Environmental Monitoring Purposes

74. HAFIZAH BINTI AZIZAN

- Reminder & Tracking (RTR) in Smart Homes

75. HALIMATUL SA'ADIAH BINTI JA'FFAR

- Galerkin Finite Element Method to Solve Two-Dimensional (2D) Laplace's Equation

76. HANNAN BINTI HASAN

- An Android-Based Portable FCSIT Undergraduate Digital Handbook

77. HUONG GUAN YEU

- Identifying Frequent and Useful Pattern in Textual Data for Text Mining

78. IMMACULATE JUNGLEE

- Management of the Examination of Research Students in UNIMAS

79. INDA BINTI SARIPUDDIN

- UNIMAS Student Complaint Management System

80. IRFAN BIN MAT ROSLY

- Integration of AI Technology in Mobile Pepper Grading Application

81. IZZAH ATIRA BINTI RAZALI

- Development of Walkthrough Game for Exploring Zoo

82. JACKSON LO WEI LOUNG

- Android Based Information Technology (IT) English Dictionary Using Lucene Algorithm

83. JESSICA CHAI SWIN JOE

- Final Year Project Title Allocation System

84. JOAN CHUA JIA FERN

- Alternative Mobile First Aid Application in Malay Language

85. JOSEPH WONG SIONG GANG

- User-Centered Mobile Message Service for Illiterate

86. KAN CHING YEE

- Web Based Collaboration System for Project Management

87. Kassie Teo KASSIE TEO

- WiFi Hotspot Subscription System

88. KAYATHIRI A/P BATUMALAI

- Anomalous Event Detection for Ping Data

89. KHAIRUL ANWAR BIN HASSAN

- Wireless Motion Sensor Light for Home Zone Security

90. KHAIRUNNISA BINTI IBRAHIM

- Tamadun Islam dan Tamadun Asia Tenggara (TITAS) Learning Portal for FCSIT Students

91. KIU SIEW MING

- Android Mobile Application for learning Bahasa Melayu for Primary Three Students

92. KOAY YEE CHEN

- Tourism Information Application: Augmented Reality Approach

93. KOH KIA HUI

- A Web-Based Prediction Tool For Test Bank Questions Selection Based On Score And Difficulty Metrics

94. KOK WOON CHEE

- Quantifying Critical Parameter in Disease Transmission

95. KOSHEILA A/P SUNDARAM PILLAY

- Malaysian Network Performance Study: Data Analysis Framework for the PingER Project

96. KUEH KAI LIN

- Kor Suksis UNIMAS Portal

97. KUEK CHAI SEOH

- Web-Based Attendance System

98. KWEE CHUN YOONG

- 3D Face Recognition Using PCA and SVM

99. LAI CHIN CHONG

- Android-Based Cloth Management Application

100. LAI CHIU TING

- Interactive WiFi Tourism Information Portal

101. LAI SWEE KIONG

- FCSIT Student Automated Course Planning Tool

102. LAU TZE HUI

- Human Resource Management System and Training Database

103. LAW CHEE HENG

- Neighbourhood Crime And Safety System

104. LEE CHIA XIN

- Automated Video Program Playback Scheduling System

105. LEE HENG KEAT

- Oreo Game-Based Learning Mobile App.

106. LEE SHIHUAN WEI

- Improving Authentication Method for Smartphone

107. LIEW CHUNG LIM

- Livestock Health Monitoring System using Radio Frequency Identification (RFID)

108. LIM YEK LIK

- Reinforcement-based Taxi Driver Selection Scheme for Location Oriented Taxi Apps

109. LIM YI MIN

- Android-based Healthcare App for Health Awareness and Wellness Monitoring

110. LIM YONG SHENG

- Travel Budget Estimator Mobile Application

111. LING HOW KUNH

- Church Management Support System

112. LING WAN CHUNG

- Fresh Graduate Skill Management System

113. MARCELLA PETER

- Developing Reading Skills Using Sight Word Reading Strategy Through Interactive Mobile Game-Based Learning For Dyslexic Children

114. MARK DING WAN

- Enhancing FCSIT Industrial Training System

115. MIKE TIONG KEK YEW

- Student-Lecturer Android Based Mobile Appointment System (APP_POINT)

116. MOHD. IRFAN BIN BOHAN
- Examination Vetting System: A Case of Software Engineering Program, FCSIT
117. MUHAMMAD ALIF AMMAR BIN SUHAIMI
- Automated Pepper Berries Sorting System
118. MUHAMMAD ASNAWI BIN BAWON
- Modelling and Simulation of Expressway Traffic Using Cellular Automaton Approach
119. MUHAMMAD FIKRY BIN MD TAHIR
- Interactive Dictionary in Iban Language
120. MUHAMMAD HAKIMI BIN MUHAMMAD ADIL
- Android Based Car Rental Application for UNIMAS Students
121. MUHAMMAD SHAHIRAN BIN ZABEDIN
- Campus Crime Notification using Crowdsourcing Technique Through Mobile Application
122. MUHAMMAD SYAMIRUL AMIN BIN AZAHARI
- A Documentation of Iban Tafseer on Juz Amma.
123. NAVEIN CHANDERAN
- Fast Auto Black Box Analysis with Infection Vector Identification
124. NG CAI CUEN
- Poultry Farm Monitoring System using Wireless Sensor Network (WSN)
125. NG WAY KIAT
- Morphological Information Induction using Collaborative Approach for U-RL: Melanau
126. NOOR FATEHA BINTI NOORDIN
- Child Tracking Mobile Apps.

127. Noor Fizati bt Khazali
- Modeling Prediction of Proboscis Monkey Population in Borneo (Sabah and Sarawak)
128. NOR ADILAH BINTI SHAMSUL BAHRIN
- SAKURA e-ACTIVITY SYSTEM
129. NOR EHA BINTI ABDUL MAJID
- A System Dynamic Simulation on Paddy Yield.
130. NOR SYAFIQAH BINTI ABDUL SAMAT
- FocusIT Student Academic Performance Dashboard
131. NOR SYUHADA BINTI MOHD FADHILLAH
- Jawi Android Apps for Pre-School Children
132. NUR AIZAT NAJWA BINTI AZMI
- Interactive Map for FCSIT
133. NUR HANIS ZAWANI BINTI ZAINAL MAZRI
- Mari Belajar Bahasa Arab Level 1
134. NUR HASANAH BINTI ARIDIN
- Knocking Method to Unlock the Screen for Android Smartphone
135. NUR IZYN NADHIRAH BINTI FAIZULNIZAM
- HalalHere: Halal Food Finder Mobile Application
136. NURAFIQAH BINTI AZAMI
- Android City Tour Guide System in Kuching city
137. NURHAZIQA BINTI TUMIRAN
- Lecturer Course Allocation And Preferences System
138. NURKHAIRUNNISA BINTI AHMADI
- Interactive Children's Storybook Using Parallax Scrolling Effect

139. NURNAJIHAH BINTI AHMAD NARZAM
- Interactive Science Experiment for Year 6
140. NURUL AISYAH BINTI AB. GHAFAR
- Correspondence Management System
141. NURUL HUSNA BINTI IDRIS
- Homestay Search Using Smartphone
142. NURUL IZZAH BINTI ABDUL WAHAB
- Transport Booking System for Student's Medical Purpose
143. NURUL SYUHADA BINTI JOINI
- Developing an Interactive Mathematics Game Using Scratch Programming
144. NUUR ILHAM BINTI ABDUL JALIL
- Multi-Purposed Car Horn System
145. ONG WENG YEW
- The Development of Kuching Smart City for Mobile Application
146. PHANG MIN HUI
- Web Based Final Examination Scheduling System
147. PHUAH YONG SIN
- Collaboration In Building a Gold-Standard of Morphological Resources for Sarawak Malay Language
148. PUVANAMALA SIVAVIKKRAMAN
- UNIMAS E-Balik Management System
149. QUR'AN ANAQAH BINTI MD AZHAR
- Sound Activation Intruder Detection using Raspberry Pi
150. QURRATUL-AIN BINTI ABDULLAH
- Mobile Web Application for Grocery Budget Planning

151. RADZIA BT AHMAD MURAD
- Wireless Sensor Network (WSN) Localization to Determine The Target Location
152. RONALD CHOK SIANG ZEA
- Graph-based Analysis and Visualization of Organisational Data in FCSIT.
153. ROZLIDIAWATI BINTI MASRUDIN
- An IT Governance Framework for Monitoring Project Progress Status
154. RUDIHATONO BINTI NGATMIN
- Mobile-Based Medical Prescription
155. SEE SIAN CHIEW
- 24/7 Tire SOS App
156. SHAIRA AMIRA BINTI MOHD. SALLEH
- Motion Capture Security System using Raspberry Pi
157. SHANKARA VIKNESH A/L SHAMUGAM
- UNIMAS Bus Schedule and Tracking Information System
158. SHAZUANE BINTI SHAFEE
- GST Calculator Application for Giant Hypermarket
159. SHIRLEY NGU LING LING
- Asian Traditional Dress-up Application
160. SIM SHIANG WEI
- Oil Palm Fruit Bunches Grading System
161. SITI AMIRAH BINTI MAMAT@ZAKARIA
- Online Hostel Allocation System for Sakura College (Mobile Application)

162. SITI FAIZNUR BINTI KAMARUDDIN KIEW
- PERTEKMA Voting System
163. SITI HASNANI BINTI MHD. HANAFIYAH
- UNIMAS Staff Training System
164. SITI MANISAH BINTI HASSAN
- Wireless Home Alarm Security System
165. SITI NOOR RAFIQHA BINTI MUSTAFFA
- FCSIT Administration Filing System
166. SITI NOR SABRINA BINTI MD ABDUL RAZAK
- Go-FCSIT Student Navigator
167. SITI NUR SYAHIRAH BT ABDUL SAHAR
- Student Smart Study Planner for Android Platform
(ANDS-PLANNER)
168. SITI RASYIDAH BINTI MOHD NASIR
- UNIMAS Vehicle Penalty Application
169. SITI ZULAIKA BINTI AHAMAD AZHAR
- Tajwid Learning for Preschoolers in Mobile Application
170. SITI ZULAIQHA BINTI ISMAIL
- My Personal Study Planner
171. SOH HAN SIANG
- Mapping Activity Decision Structure (Activity Diagram) To
Xml Representation
172. SOO YI QIAN
- UNIMAS Mobile Navigator
173. SOONG YIE THIN
- Anti-phishing add-on for mozilla firefox

174. TAN GUI ONG
- Web Based Microbial Genome Annotation Automated System
175. TAN KHAI LI
- Web-base CCTV Monitoring System
176. TAN MEI SYNN
- AR Animal Explorer Apps
177. TAN PAIR ING
- Unimas Visitor Guide
178. TEA CHONG SANG
- Mapping Aggregation Relationship to XML Representation
179. TEO MEI GIE
- Invigilator Scheduling for Faculty Final Examination
180. THIAN TZE YUNG
- Heuristic Algorithm for University Final Examination Timetabling
181. TILAGA KUNASAKARAN
- MathFun-Learning Mathematics For Government Primary
School Year 1 Students Using Android Application
182. TING JIA YEE
- Mathematics E-learning of Android Application for Autism Kids
183. TING SIEW MEI
- Mapping UML Association into XML Structure
184. TIONG SIEW TIEN
- Development of Learning Colors for Autism Kids on Android
Phones.
185. UMI IZZATI BINTI HOD
- Room Air-Conditioner System Modeling

186. VINCENT MERINGGAI ANAK BIRANG

- Personal File Server and Media Center Using Raspberry Pi

187. VIVIENNA ANAK ROBIN

- Web-based Personal Expense Tracker

188. VOON MEI WEI

- Utilising Social Media through Crowdsourcing for Morphological Resources Acquisition of Under-Resourced Language (U-RL): Melanau

189. WAN MUHAMMAD FAISAL BIN WAN TAMLIKHA

- Comparing Naive Bayes and Support Vector Machines on Sarawak Gazette Named Entity Recognition

190. WONG KHANG LUN

- Analyse The Password Decryption Time Using Parallel Technique

191. WONG KOK SIONG

- Online Communicable Disease Monitoring System

192. WONG SING MEI

- An Image Processing Approach for Oil Palm Fruit Content Classification

193. WONG SOOK WAN

- Web-Based Management & Monitoring System for Pusat Internet 1 Malaysia (PI1M) Project

194. WONG SWEE YIN

- Generation of XML Representation from UML Generalization Structure

195. WONG TECK ANG

- Low Bus Tracking System for UNIMAS

196. WOO CHOY MAN

- Speech Therapy Game Mobile Application for Speech and Language Impairment (SLI) Pre-school Children

197. YAP LI VERN

- Study plan advisor system

198. YEO SHIN HOCK

- QR MOBILE PAY SYSTEM

199. YEOW XIN HUI

- A research on heuristic student Sectioning for Faculty FCSIT course Timetabling

200. YO KEE SENG

- Network Tool For Preventing DDoS Attacks On Cloud Computing

201. ZAINUL ARIFIN BIN MORTADA

- Automated Blind Window for Smart Home

202. ZURINA BINTI HAZEMI

- Android Based Physical Exercise Advisor Application

NAME OF THE ORGANIZING COMMITTEE

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Prof. Wang Yin Chai

PROGRAM ADVISOR 2

D.r Johari Abdullah

ORGANIZER

Chan Yat Seng

CO-ORGANIZER

Puvanamala A/P Sivavikkraman

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Mike Tiong Kek Yew

Yap Li Vern

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Nurafiqah Azami

Nurnajihah Ahmad Narzam

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Nurkhairunnisa Ahmadi

Nurul Syuhada Joini

Siti Nor Sabrina Md Abdul Razak

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Rudihartono Ngatmin

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Tea Chong Sang
Dennis Yong Chuan Kuan

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Kueh Kai Lim
Soh Han Siang
Yo Kee Seng
Zainul Arifin Mortada

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Chiadighikaobi Ikenna Rene
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Ling Wan Chung
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Navcin Chandran
Ong Weng Yew
Shirley Ngu Ling Ling
Wong Teck Ang

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Hirnowati Maslan
Inda Saripuddin
Siti Noor Rafiqha Mustaffa
Tilaga Kunasakaran

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Nor Eha Binti Abdul Majid
Halimatul Sa'adiah Ja'ffar
Aisyah Mohammad
Umi Izzati Ildod
Siti Hasnani Mhd Hanafiyah

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Ching Fong May
Khairunnisa Ibrahim
Lee Shiuan Wei
Ycow Xin Hui